

# **PRODUCT SPECIFICATIONS**



11 SEER, 50 HERTZ
4 AND 5 TONS

Nominal Cooling Capacity: 46,400 to 54,700 BTU/H [13.6 kW to 16.0 kW]

# PC PACKAGED AIR CONDITIONERS

The PC50 Packaged Air Conditioner features energy-efficient cooling and heating performance in one self-contained unit. This unit is housed in a heavy-gauge, galvanized-steel cabinet protected by a high-quality, UV-resistant powder-paint finish. The PC50 allows for ground-level or rooftop applications, and is approved for manufactured or modular homes.

#### **Standard Features**

- Energy-efficient compressor with internal relief valve
- PSC blower motor
- Quiet horizontal discharge
- Copper tube/aluminum fin coil
- Totally enclosed, permanently lubricated condenser fan motor
- Fully charged system

#### **Cabinet Features**

- Heavy-gauge galvanized-steel cabinet with attractive Architectural Gray powder-paint finish
- Fully insulated blower compartment with convenient access panels
- Louvered condenser coil protection
- Common footprint

#### **Heat Kit Selection**

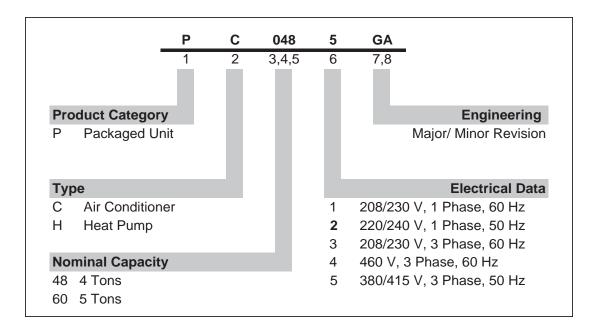
- HKR5-12 (12 kW)
- HKR5-15 (15 kW)
- Above electric heat kits available as field-installed options.







# Nomenclature



# **S**PECIFICATIONS

	PC048-5	PC060-5		
Cooling Capacity				
Total BTU/h	46,400	54,700		
Sensible BTU/h	33,300	39,400		
SEER / EER	11.9 / 10.2	10.9 / 9.4		
Decibels	80	80		
Evaporator Motor				
Туре	DD	DD		
Wheel (D x W)	9 x 8	10 x 8		
Nominal Cooling CFM	1,365	1,693		
No. of Speeds	2	2		
Horsepower - RPM	1/2 - 1075	3/4 - 1075		
Evaporator Coil				
Face Area (ft²)	6.2	7.0		
Rows Deep/ Fins per Inch	4/14	4/14		
Filter Size (ft²)	(2) 20 x 20 x 1	(2) 20 x 20 x 1		
Drain Size (NPT)	3/4"	3/4"		
Refrigerant Charge (oz.)	126	125		
Condenser Fan / Coil				
Horsepower - RPM	1/4 - 1075	1/4 - 1075		
Fan Diameter/ # Fan Blades	22 / 4	22 / 4		
Face Area (ft²)	17.8	19.1		
Rows Deep/ Fins per Inch	2 / 16	2 / 16		
Electrical Data				
Voltage/Phase/ Frequency	380-415	5/3/50		
Compressor RLA/LRA	7.4 / 50	10.3 / 65		
Indoor Blower FLA	1.4	2.2		
Outdoor Fan RLA	0.8	1.2		
Total Unit Amps	8.9	11.4		
Min. Circuit Ampacity <sup>1</sup>	11.5	16.3		
Max. Overcurrent Protection <sup>2</sup>	20 amps	20 amps		
Ship Weight (lbs)	400	400		

<sup>&</sup>lt;sup>1</sup> Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

<sup>&</sup>lt;sup>2</sup> May use fuses or HACR-type circuit breakers of the same size as noted. Note: Always check the S&R plate for electrical data on the unit being installed.

#### PRODUCT SPECIFICATIONS

## **Expanded Cooling Ratings**

#### PC048-5G

Indo	or	Condenser Air Temperature														
Air			75		85		95			105			115			
SCFM	WB	Total MBTU	Sens MBTU	Watts kWh	Total MBTU	Sens MBTU	Watts kWh	Total MBTU	Sens MBTU	Watts kWh	Total MBTU	Sens MBTU	Watts kWh	Total MBTU	Sens MBTU	Watts kWh
	71	48.1	23.5	4.05	46.9	23.6	4.32	45.8	23.7	4.56	43.5	23.4	4.76	40.3	21.8	4.93
1194	67	45.0	29.5	3.92	43.9	29.5	4.18	42.8	29.7	4.41	40.7	29.3	4.60	37.7	27.3	4.77
1194	63	42.1	33.9	3.80	41.1	33.9	4.04	40.1	34.1	4.26	38.1	33.7	4.45	35.3	31.4	4.61
	59	41.2	35.3	3.71	40.2	35.4	3.96	39.2	35.6	4.17	37.3	35.1	4.35	34.5	32.8	4.50
	71	52.1	26.4	4.16	50.8	26.5	4.44	49.6	26.7	4.68	47.1	26.3	4.89	43.6	24.6	5.06
1365	67	48.7	33.1	4.02	47.6	33.1	4.29	46.4	33.4	4.52	44.1	32.9	4.72	40.8	30.7	4.89
1303	63	45.6	38.1	3.90	44.5	38.1	4.15	43.4	38.4	4.37	41.3	37.8	4.57	38.2	35.3	4.73
	59	44.6	39.7	3.81	43.6	39.8	4.06	42.5	40.0	4.28	40.4	39.5	4.46	37.4	36.9	4.62
	71	53.6	28.6	4.20	52.4	28.6	4.47	51.1	28.8	4.72	48.5	28.4	4.93	45.0	26.5	5.11
1536	67	50.2	35.7	4.06	49.0	35.8	4.33	47.8	36.0	4.56	45.4	35.5	4.76	42.1	33.2	4.94
	63	47.0	41.1	3.93	45.9	41.1	4.19	44.7	41.4	4.41	42.5	40.9	4.61	39.4	38.2	4.77
	59	46.0	42.9	3.84	44.9	42.9	4.09	43.8	43.8	4.31	41.6	41.6	4.50	38.5	38.5	4.66

Sensible heat capacities shown are based on 80°F DB entering air at the evaporator coil.

For sensible heat capacities at other than 80°F DB, deduct 84 BTU/h per 100 CFM of evaporator coil air for each degree below 80°F, or add 84 BTU/h per 100 CFM of evaporator coil air per degree above 80°F.

Total MBTU/h 43.0 Sensible MBTU/h 33.0 Latent MBTU/h 10.0

#### PC060-5G

Indo	or		Condenser Air Temperature													
Aiı	r		75		85		95		105			115				
SCFM	WB	Total MBTU	Sens MBTU	Watts kWh	Total MBTU	Sens MBTU	Watts kWh	Total MBTU	Sens MBTU	Watts kWh	Total MBTU	Sens MBTU	Watts kWh	Total MBTU	Sens MBTU	Watts kWh
	71	56.7	27.7	5.23	55.3	27.8	5.57	54.0	28.0	5.87	51.3	27.6	6.12	47.5	25.8	6.35
1481	67	53.0	34.7	5.06	51.8	34.8	5.39	50.5	35.0	5.68	48.0	34.5	5.92	44.4	32.2	6.13
1401	63	49.6	39.9	4.90	48.4	40.0	5.21	47.3	40.3	5.49	44.9	39.7	5.73	41.6	37.1	5.93
	59	48.6	41.7	4.79	47.4	41.7	5.10	46.2	42.0	5.37	43.9	41.4	5.60	40.7	38.7	5.80
	71	61.4	31.2	5.36	59.9	31.2	5.71	58.5	31.4	6.02	55.6	31.0	6.29	51.5	28.9	6.52
1693	67	57.4	39.0	5.19	56.1	39.1	5.53	54.7	39.3	5.83	52.0	38.8	6.08	48.1	36.2	6.30
1093	63	53.8	44.9	5.02	52.5	44.9	5.35	51.2	45.2	5.64	48.6	44.6	5.88	45.1	41.7	6.09
	59	52.6	46.8	4.92	51.4	46.9	5.23	50.1	47.2	5.51	47.6	46.5	5.75	44.1	43.5	5.95
	71	63.2	33.7	5.41	61.7	33.7	5.76	60.2	33.9	6.08	57.2	33.5	6.34	53.0	31.3	6.57
1005	67	59.2	42.1	5.23	57.7	42.2	5.57	56.3	42.5	5.87	53.5	41.9	6.13	49.6	39.1	6.35
1905	63	55.4	48.5	5.07	54.1	48.5	5.39	52.7	48.8	5.68	50.1	48.2	5.93	46.4	45.0	6.14
	59	54.2	50.6	4.96	52.9	50.6	5.28	51.6	51.6	5.56	49.0	49.0	5.80	45.4	45.4	6.01

Sensible heat capacities shown are based on 80°F DB entering air at the evaporator coil.

For sensible heat capacities at other than 80°F DB, deduct 84 BTU/h per 100 CFM of evaporator coil air for each degree below 80°F, or add 84 BTU/h per 100 CFM of evaporator coil air per degree above 80°F.

Total MBTU/h 50.7 Sensible MBTU/h 38.9 Latent MBTU/h 11.8

## **EVAPORATOR BLOWER SPECIFICATIONS**

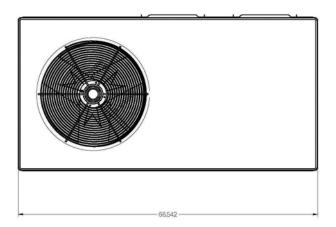
Model	Cnaad	A inflore	External Static Pressure In-Water [Mbar]								
wodei	Speed	Airflow	0.1 [0.25]	0.2 [0.5]	0.3 [0.75]	0.4 [1.0]	0.5 [1.25]				
DC060 FA	Low	CFM [L/s]	1885 [890]	1840 [870]	1795 [850]	1675 [790]	1575 [740]				
PC060-5A	High	CFM [L/s]	2030 [960]	1955 [920]	1900 [900]	1760 [830]	1655 [780]				
DC040.5A	Low	CFM [L/s]	1540 [730]	1450 [680]	1315 [620]	1215 [570]	1070 [500]				
PC048-5A	High	CFM [L/s]	1590 [750]	1490 [700]	1395 [660]	1280 [600]	1120 [530]				

<sup>[ ]</sup> Designates metric measurements

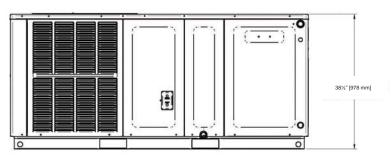
#### Notes:

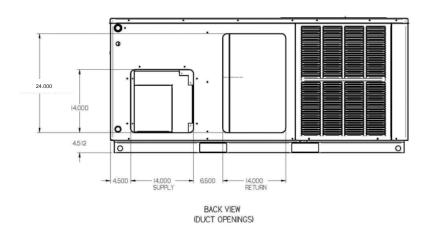
- 1. Data shown is dry coil. Wet coil pressure drop is approx.
- 2. 0.1" H2O, for two-row indoor coil; 0.2" H<sub>2</sub>O, for three-row indoor coil; and 0.3" H<sub>2</sub>O, for four-row indoor coil.
- 3. Data shown does not include filter pressure drop, approx. 0.08" H<sub>2</sub>O.
  4. ALL MODELS SHOULD RUN NO LESS THAN 350 CFM/TON. USE HIGHER SPEED TAP OR NEXT SIZE LARGER BLOWER ASM., See Repair Parts list.
- 5. Reduce airflow by 2% for 208-volt operation.

# **D**IMENSIONS





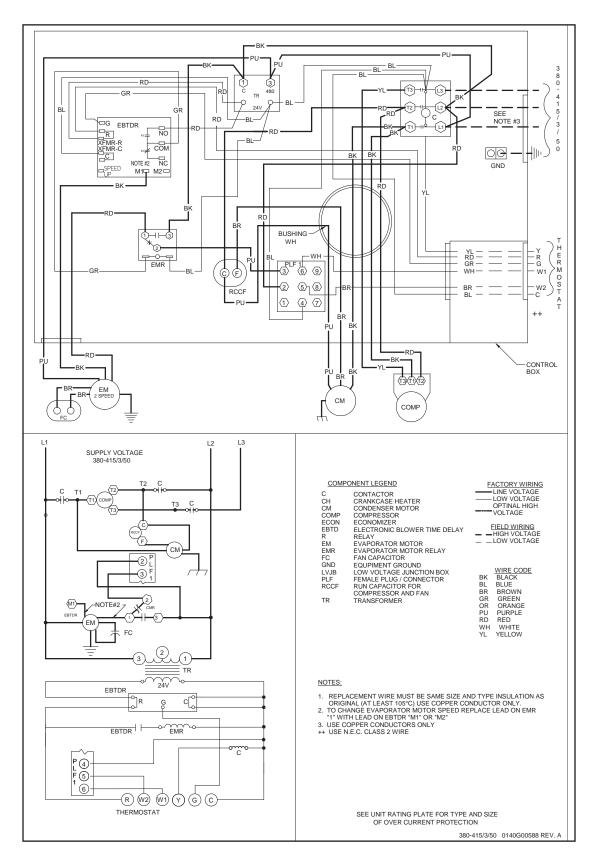




Model	Dimensions (Inches)							
Wodei	W	D	Н					
PCO48-5	66"	33"	38½"					
PC060-5	66"	33"	38½"					

Dimensions (mm)							
W	D	Н					
1,676	838	978					
1,676	838	978					

## SCHEMATIC WIRING DIAGRAMS





**High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring

## PRODUCT SPECIFICATIONS

### Accessories

Item #	Description
PCCP101-103	Roof Curb for PC- Electric/Electric Package Unit
PCP101-103	Downflow Plenum Kit for PC- Package Unit
PCP101-103R8	Downflow Plenum Kit for PC- Package Unit with R-8 Insulation
PCE101-103	Downflow Economizer for PC- Package Unit to be used with PCP101-103
PCMD101-103	Manual Damper for PC- Package Unit to be used with PCP101-103
PCMDM101-103	Motorized Damper for PC- Package Unit to be used with PCP101-103
PCMDH101-103	Manual Damper for PC- Package Unit Horizontal Applications
SQRPCH101	Square-to-Round Adapters for PC- Package Unit 16" & 14"
SQRPCH102-103	Square-to-Round Adapters for PC- Package Unit 18" & 14"
SQRPC101	Square-to-Round Adapter for PC- Package Unit for use with PCCP101-103 Curb 16" Rounds
SQRPC102-103	Square-to-Round Adapter for PC- Package Unit for use with PCCP101-103 Curb 18" Rounds
PCFR101-103	External Horizontal Filter Rack
PCEF101-103	Elbow & Flashing with R-8 Liner for PC- Package Unit

The above accessories are offered by McDaniel Metals • Main: (281) 987-8400 • Fax: (281) 987-9494

